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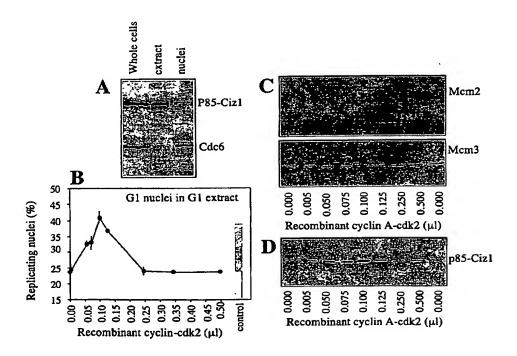
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Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: CIZ1 REPLICATION PROTEIN



(57) Abstract: This invention relates to a screening method for the identification of agents which modulate the activity of the CIZ1 DNA replication protein as a target for intervention in cancer therapy and includes agents which modulate said activity. The invention also relates to the use of the DNA replication protein, and its RNA transcripts in the prognosis and diagnosis of proliferative disease e.g., cancer.



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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

al Application No 03/05334

C. DOCUMENTS CONSIDERED TO BE RELEVANT

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/09 C12N15/11 G01N33/566 G01N33/53

C12N15/63

C07K14/46

C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, MEDLINE, EMBASE, Sequence Search, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the r	elevant passages	Relevant to claim No.
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P,X	abstract & "ANALYSIS OF THE MOUSE TRANS BASED ON FUNCTIONAL ANNOTATION OF FULL-LENGTH CDNAS" NATURE, MACMI JOURNALS LTD. LONDON, GB, vol. 420, no. 6915, 5 December 2002 (2002-12-05), pa 563-573, XP001165660 ISSN: 0028-0836	OF 60,770 ILLAN	17,18
X Furt	her documents are listed in the continuation of box C.	χ Patent family members are listed	In annex.
"A" docume consider filing of the docume which citatio of docume other."	ant defining the general state of the art which is not lered to be of particular relevance document but published on or after the international late ant which may throw doubts on priority claim(s) or is cited to establish the publication date of another in or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but than the priority date claimed	 "T" later document published after the int or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the divided and inventive step when the divided and the cannot be considered to involve an indocument is combined with one or ments, such combination being obviding the art. "&" document member of the same patent 	claimed Invention It be considered to ocument is taken alone claimed invention iventive step when the iore other such docu- ous to a person skilled
	actual completion of the international search 2 June 2004	Date of mailing of the international se	arch report
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Tudor, M	



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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE UNIPROT EBI, HINXTON, CAMBRIDGESHIRE, U.K.; 16 October 2001 (2001-10-16), MITSUI K., ET AL.: "Cip1-interacting zinc finger protein (Nuclear protein NP94)." XP002285016 Database accession no. Q9ULV3 abstract -& MITSUI KAORU ET AL: "Cloning and characterization of a novel p21 Cip1/Waf1-interacting zinc finger protein, Ciz1" BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 264, no. 2, 22 October 1999 (1999-10-22), pages 457-464, XP002285057 ISSN: 0006-291X	1-9, 13-15, 17-20
X	DATABASE GENESEQ EBI, HINXTON, CAMBRIDGESHIRE, U.K.; 22 October 2001 (2001-10-22), TANG YT. ET AL: "Human polypeptide SEQ ID NO 2772." XP002285017 Database accession no. AAM39627 abstract & WO 01/53312 A (CHEN RUI HONG; GOODRICH RYLE (US); HYSEQ INC (US); WANG DUNRUI (US);) 26 July 2001 (2001-07-26) example 4; sequence 2772	13-15, 17-20
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K	WO 01/70979 A (MILLENNIUM PREDICTIVE MEDICINE) 27 September 2001 (2001-09-27) sequence 19627	13-15, 17-20
X	DATABASE UNIPROT EBI, HINXTON, CAMBRIDGESHIRE, U.K.; 1 March 2002 (2002-03-01), STRAUSBERG R.: "Hypothetical protein (CIZ1)." XP002285020 Database accession no. Q8VEH2 abstract	13-15, 17,18
X	DATABASE EMBL EBI, HINXTON, CAMBRIDGESHIRE, U.K.; 10 December 2001 (2001-12-10), STRAUSBERG R.L. ET AL: "Mus musculus CDKN1A interacting zinc finger protein 1, mRNA (cDNA clone MGC:27988 IMAGE:3597692), complete cds." XP002285021 Database accession no. BC018483 abstract	13-15, 17, 18





Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inter	rnational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
_{2.} [X]	Although claims 19, 20 (insofar as in vivo methods are concerned) and 27 are directed to a method of treatment or diagnosis of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition. Claims Nos.: 10-12,13(a),21-29
	because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
	see FURTHER INFORMATION sheet PCT/ISA/210
з	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	emational Searching Authority found multiple Inventions in this international application, as follows:
	see additional sheet
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. X	No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
	1-15, 17-29
Remark	k on Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 19, 20 (insofar as in vivo methods are concerned) and 27 are directed to a method of treatment or diagnosis of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.2

Claims Nos.: 10-12,13(a),21-29

The application contains two claim 13's. For the purpose of the search these claims have been referred to as claims 13(a) and 13(b) respectively.

Claims 10-12, 13(a) (except for the references to nucleic acids and antibodies) and 21-29 refer to agents without giving a true technical characterisation of said agents. Said claims cover all agents having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT for only a very limited number of such agents. In the present case, said claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.

Independent of the above reasoning, said claims also lack clarity (Article 6 PCT). An attempt is made to define the agent by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely the parts relating to antibodies and nucleic acid molecules which specifically bind to the CIZ1 polypeptide and polynucleotide.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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